

TABLE 37

Cost For Diesel Fuel Recovery Alternatives

	Alternative A	Alternative B	Alternative C	Alternative D	Alternative E	Alternative F	Modified F
Description of Alternatives	No Action	Intrinsic Bioremediation and Institutional Controls	Passive Recovery	Enhanced Two-Pump Recovery	Passive Recovery of Diesel Fuel Containing VOCs	Soil Venting and Passive Recovery	(DEQ Preferred Remedy) Expanded Passive Recovery, Monitoring and Soil Venting
Capital Cost	\$ 0	\$ 50,000	\$ 417,933	\$ 260,032	\$ 66,970	\$ 142,080	\$ 481,682
Annual Remedial Operation and Maintenance (O&M) Cost	\$ 0	\$ 5,000	\$83,390	\$ 138,145	\$ 62,944	\$ 76,744	\$ 75,880 ¹
Years to Complete ²	0	20	6	3	3	5	6
Annual Monitoring Cost							\$ 9,900 ³
Years for Diesel Fuel Monitoring							10
Total Present Worth ⁴	\$ 0	\$ 124,387	\$ 869,673	\$ 650,791	\$ 245,014	\$ 493,545	\$ 1,010,694 ⁵

¹ O&M costs for Modified Alternative F includes at least 6 years for free product recovery and approximately 10 years for soil venting.

² The number of years to complete Alternatives A - F were provided by BNSF. BNSF cost estimates to complete Alternatives A - F are based on different interpretations than DEQ on the volume of diesel fuel remaining and the volume of diesel fuel that needs to be removed. DEQ believes the number of years to complete the remedy and resulting cost may be underestimated. For comparison purposes DEQ used 6 years to estimate the cost of DEQ's preferred remedy. Actual years to complete the remedy will be based on the documented performance of the diesel fuel recovery system to be implemented during Phase I.

³ Annual monitoring cost for Modified Alternative F includes sampling, analyses and reporting in addition to the annual groundwater monitoring cost listed in Table 3.

⁴ Total present worth for all alternatives includes a 3 percent discount rate.

⁵ Includes 3 years of natural attenuation monitoring.